

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 5106

TITLE: ENGINEER V

GRADE: S-31

DEFINITION:

Under general direction, serves as a branch chief of either a large branch consisting of approximately 15 staff that includes engineers/architects performing routine engineering work OR a small branch that includes engineers/architects performing complex engineering work; responsibilities include planning, budgeting, scheduling, coordinating and supervising; and performs related work as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

Work at this level is predominately managerial and administrative.

The Engineer V is distinguished from the Engineer IV in that the Engineer V serves as branch chief of a large branch performing routine engineering work, OR of a small branch performing complex work; whereas the Engineer IV supervises, coordinates and reviews the work of a small staff with complex work; OR a larger staff performing more routine work, AND/OR performs advanced specialized engineering work.

The Engineer V is distinguished from the Engineer VI in that the Engineer VI is chief of a large branch performing complex engineering or architectural work.

ILLUSTRATIVE DUTIES:

Depending on the functional area of assignment:

Plans, directs and supervises the work of a group of engineers or architects in the design or construction of highly complex projects such as buildings, transportation or stormwater projects, solid waste management or wastewater facilities;

Supervises the work of a group of engineers in the review of subdivision plans for impact on critical county infrastructure, such as stormwater management, wastewater treatment, or main traffic arteries;

Heads planning and conservation programs of significant impact;

Makes high level decisions on annual budget, blanket procurement contracts, consultant contracts, or investment in software updates;

Performs the most difficult or highly technical design reviews or reviews of site or subdivision plans and capital projects;

Ensures work performed under contract meets county standards and agreed upon specifications and timeframes, and permit and regulatory requirements;

Signs off on the work of the branch and may sign and seal own work product and/or that of subordinate staff;

Provides technical engineering guidance and input on key projects throughout the conceptual, preliminary and final design and construction phases;

Supervises work performed under contract and maintains professional control of projects to completion;

Attends public meetings and conferences, and makes recommendations concerning county budget appropriations for operations and/or projects;
Prepares manuals, reports, standard operating procedures, and guidelines for the operation of the work group, branch, or division;
Reviews and supervises proposed revisions to technical design standards and ordinances;
Prepares and makes presentations to boards, commissions, committees, and senior management;
May serve on leadership and management working groups including business area teams;
Serves on technical committees and provides expert testimony at public hearings;
Provides code related technical training;
Registered Architect may sign and seal own work product and/or that of subordinate staff.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Depending on the functional area of assignment:
Knowledge of the principles, theory and practice of civil, architectural, and environmental engineering or urban planning;
Knowledge of computer applications and software (such as CAD) that is associated with the preparation of plans and engineering computations;
Knowledge of topographic and construction surveying;
Knowledge of common methods and equipment used in engineering construction and of inspection methods used in reviewing such work;
Knowledge of real property descriptions;
Knowledge of environmental testing methods;
Knowledge of the principles and practices of contract procurement and management;
Knowledge of Virginia Uniform Statewide Building Code and the codes and ordinances which apply to building construction in Fairfax County;
Ability to review construction documents, designs and proposals for costs, design requirements and compatibility with County standards, guides and operational needs;
Ability to collect and compile research data;
Ability to oversee and coordinate the work of a diverse professional and para-professional engineering/architectural staff;
Ability to communicate clearly and effectively both orally and in writing and interact effectively with the public;
Ability to prepare technical reports and to present findings in a clear and concise format;
Ability to engage others in the design and implementation strategies that maximize employee potential and foster high ethical standards in meeting the organization's vision, mission, and goals;
Ability to acquire and administer human, financial, material, and information resources in a manner that instills public trust and accomplishes the organization's mission, and the ability to use new technology to enhance decision making;
Ability to explain, advocate, and express facts and ideas in a convincing manner;
Ability to negotiate with individuals and groups internally and externally;
Ability to develop an expansive professional network with other organizations;
Ability to identify and navigate the internal and external politics that impact the work of the organization;

Ability to develop and implement an organizational vision that integrates key County and program goals, priorities, values, and other factors.

EMPLOYMENT STANDARDS:

Graduation from a four-year college or university accredited by the Accreditation Board of Engineering and Technologies with a bachelor's degree in the appropriate engineering or architecture field; PLUS

Five years of progressively responsible professional experience in the appropriate engineering or architectural field.

CERTIFICATES AND LICENSES REQUIRED:

A driver's license may be required for positions as identified to the Department of Human Resources.

NECESSARY SPECIAL REQUIREMENTS:

Possession of a valid Virginia Professional Engineer or Architect license. An individual who possesses a valid Professional Engineer or Architect license in another state will be granted a temporary exemption to this requirement pending the Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers & Landscape Architects decision regarding that individual's application for reciprocity. As a Professional Engineer or Registered Architect, signs and seals own work product and/or that of subordinate staff.

Possession of a valid Virginia Waste Management Facility Operator Class II License, or the ability to obtain one within six months of appointment is required for certain positions as identified to the Department of Human Resources.

Possession of a Virginia Department of Housing and Community Development certification as Commercial Building Inspector and as Fire Protection Inspector is required within 18 months of appointment for certain positions as identified to the Department of Human Resources

Possession of Plan Review certifications issued by the Virginia Department of Housing and Community Development in residential building, commercial building, plumbing, electrical or mechanical or Certified Building Official is required for certain positions identified to the Department of Human Resources.

ESTABLISHED: March 29, 2007